

NON-WOVEN GLASS FIBER MAT FACED GYPSUM BOARD AND PROCESS OF MANUFACTURE

ABSTRACT

A gypsum board comprises a set gypsum layer having a first face and a second face. A fibrous mat is affixed to at least one of the faces. The mat comprises a non-woven web bonded together with a resinous binder. The web comprises a blend of a major portion composed of chopped continuous glass fibers having an average fiber diameter ranging from about 8 to 17 μm and a minor portion composed of fine staple fibers having an average fiber diameter of less than about 5.5 μm , the minor portion comprising about 1-30 percent of the dry weight of the web. The board is exceedingly durable. It has a smooth surface that is readily finished in an aesthetically pleasing way, using paint or other wall covering systems.